

The abstract

The present application discloses a method for implementing macro-diversity management by using intelligent VBS. the size of a cell cluster is intelligently adjusted by using a mobile server, and the macro-diversity of the cell cluster is performed by dynamically selecting a parent base station. Specifically, according to load condition of a cell in the cluster, the most effective cell is selected as the parent base station so as to balance inter-cell load balancing. Furthermore, since different VBSs can exchange information through the mobile server, the intelligent VBS hierarchy can perform inter-cell cluster and inter-VBS macro-diversity. Such an intelligent VBS hierarchy can avoid a plurality of Iur interface signalings due to frequent handover between radio network controllers (RNC), and balance load imbalance due to inter-cell soft handover.